

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51821 MA No.: _____ SDG No.: MJNKH1
SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
<u>MJNKH1</u>	<u>P5273-01</u>	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
<u>MJNKH1D</u>	<u>P5273-02</u>	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
<u>MJNKH1S</u>	<u>P5273-03</u>	<u> </u>	<u>X</u>	<u> </u>	<u> </u>

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
Date: _____ Title: _____

68HERH20DD0011

SDG # MUNKH1

Page 1 of 3

USEPA CLP COC (LAB COPY)

Date Shipped: 12/12/2024

Carrier Name: FedEx

Airbill No: 7707 2063 6449

CHAIN OF CUSTODY RECORD

Case #: 51821

Corder #: 13

No: 10-121224-133129-0017

Lab: Alliance Technical Group LLC

Lab Contact: Mohammed Ahmed

Lab Phone: 908-728-3161

Sample Identifier	CLP Sample No.	Matrix/Sampler	Col. Method	Analysis Turnaround (Days)	Tag Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MJNKB7	MJNKB7	Sediment/ SB	Grab	ICP-MS(21)	1309 (< 6 C) (1)	OLB-SS-TTB-A-0.0-0.33	12/11/2024 12:15	
MJNKB8	MJNKB8	Sediment/ SB	Grab	ICP-MS(21)	1310 (< 6 C) (1)	OLB-SS-TTB-B-0.0-0.33	12/11/2024 15:45	
MJNKC0	MJNKC0	Sediment/ SB	Grab	ICP-MS(21)	1312 (< 6 C) (1)	OLB-SS-TTB-B-0.0-0.33	12/11/2024 13:15	
MJNKC5	MJNKC5	Sediment/ SB	Grab	ICP-MS(21)	1317 (< 6 C) (1)	OLB-SS-NA1-0.0-0.33	12/10/2024 14:50	
MJNKC6	MJNKC6	Sediment/ SB	Grab	ICP-MS(21)	1318 (< 6 C) (1)	OLB-SS-NA2-0.0-0.33	12/10/2024 13:30	
MJNKC7	MJNKC7	Sediment/ SB	Grab	ICP-MS(21)	1319 (< 6 C) (1)	OLB-SS-NA3-0.0-0.33	12/10/2024 15:10	
MJNKC8	MJNKC8	Sediment/ SB	Grab	ICP-MS(21)	1320 (< 6 C) (1)	OLB-SS-NA3-0.0-0.33-FD	12/10/2024 15:10	
MJNKC9	MJNKC9	Sediment/ SB	Grab	ICP-MS(21)	1321 (< 6 C) (1)	OLB-SS-NA4-0.0-0.33	12/10/2024 14:15	
MJNKH1	MJNKH1	Sediment/ SB	Grab	ICP-MS(21)	1363 (< 6 C) (1)	OLB-SS-TTB2-0.0-0.33	12/12/2024 09:15	1-0
MJNKH2	MJNKH2	Sediment/ SB	Grab	ICP-MS(21)	1364 (< 6 C) (1)	OLB-SS-TTB2-0.0-0.33-FD	12/12/2024 08:15	

Sample(s) to be used for Lab QC: MJNKC7 Tag 1319, MJNKH1 Tag 1363

0543424, 0543425

Shipments for Case Completed: N

Samples Transferred From Chain of Custody: 8

Analysis Key: ICP-MS-CLP Metals (As, Cu, Pb, Zn)-Sediment

Items/Reason	Requested by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	af Jacobs	12/13/24	af	12-13-24	SEALED 1.8"
					Labby Seal Ticket
					Keep Black pass

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Cassandra Rice</u>		Log-in Date 12/13/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51821	SDG No. MJNKH1	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>0543424,0543425</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>770720636449</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>1.8</u> Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	<u>12/13/2024</u>
12. Time Received	<u>10:00</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MJNKH1	N/A	1363	P5273-01	Intact
2	MJNKH1D	N/A	1363	P5273-02	Intact
3	MJNKH1S	N/A	1363	P5273-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>12/13/24</u>	Logbook Page No. N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Technical Group, LLC		
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51821	SDG NO.	MJNKH1
MA NO.		SOW NO.	SFAM01.1

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOS:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	2	✓	
3. Sample Log-In Sheet (DC-1)	3	3	✓	
4. CSF Inventory Sheet (DC-2)	4	6	✓	
5. SDG Narrative	7	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	11	✓	

Analysis Forms and Data (ICP-AES)

8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (ICP-MS)

17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	12	12	✓	
18. Instrument raw data by instrument in analysis order	13	429	✓	

Other Data

19. Standard and Reagent Preparation Logs	430	562	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	563	564	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	565	569	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOS:		CHECK	
	FROM	TO	LAB	REGION
23 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
24 . Raw GPC Data	NA	NA	✓	
25 . Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (Mercury)

26 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

28 . Standard and Reagent Preparation Logs	NA	NA	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	✓	
34 . Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (Cyanide)

35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

37 . Standard and Reagent Preparation Logs	NA	NA	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	✓	
43 . Raw Florisil Data	NA	NA	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)Audited by:
(EPA)

Nimisha Pandya, Document Control Officer

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
570	570	✓	
NA	NA	✓	
571	571	✓	
NA	NA	✓	
572	572	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MJNKH1

CASE # 51821

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P5273

A. Number of Samples and Date of Receipt

01 Soil samples was delivered to the laboratory intact on 12/13/2024

B. Parameters

Test requested for Metals CLP4 MS = Arsenic, Copper, Lead, Zinc.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 1.8°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :



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$$\text{Concentration (mg/kg)} = C \times \frac{V_f}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)

V_f = Final digestion volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Example Calculation For Sample MJNKH1 For Arsenic:

If C = 88.33 ppb

V_f = 500 ml

W = 1.49 g

S = 0.685(68.5/100)

DF = 1

$$\text{Concentration (mg/kg)} = 88.33 \times \frac{500}{1.49 \times 0.685} \times 1 / 1000$$

$$= 43.2714 \text{ mg/kg}$$

$$= 43 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Arsenic	89Y
Copper	45Sc
Lead	209Bi
Zinc	45Sc



**284 Sheffield Street
Mountainside, NJ 07092**

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____

Name: Nimisha Pandya

Date _____

Title: Document Control Officer



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/19/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 14:50
In Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:45
Out Date: 12/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133992

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P5272-01	MJNKJ6	1	1.15	8.83	9.98	3.99	32.2	
P5272-02	MJNKJ7	2	1.15	8.64	9.79	9.26	93.9	
P5272-03	MJNKJ8	3	1.14	8.82	9.96	4.71	40.5	
P5272-04	MJNKJ9	4	1.12	8.86	9.98	6.52	60.9	
P5272-05	MJNKJ9D	5	1.12	8.86	9.98	6.52	60.9	
P5272-06	MJNKJ9S	6	1.12	8.86	9.98	6.52	60.9	
P5272-07	MJNKK0	7	1.18	8.78	9.96	6.34	58.8	
P5272-08	MJNKK1	8	1.15	8.38	9.53	4.51	40.1	
P5272-09	MJNKK2	9	1.12	8.83	9.95	4.12	34.0	
P5273-01	MJNKH1	10	1.14	8.85	9.99	7.2	68.5	
P5273-02	MJNKH1D	11	1.14	8.85	9.99	7.2	68.5	
P5273-03	MJNKH1S	12	1.14	8.85	9.99	7.2	68.5	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

133992

WorkList Name : %1-p5272

WorkList ID : 186442

Department : Wet-Chemistry

Date : 12-18-2024 14:08:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5272-01	MJNKJ6	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-02	MJNKJ7	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/11/2024	Chemtech -SO
P5272-03	MJNKJ8	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-04	MJNKJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-05	MJNKJ9D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-06	MJNKJ9S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-07	MJNKK0	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-08	MJNKK1	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5272-09	MJNKK2	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/10/2024	Chemtech -SO
P5273-01	MJNKH1	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/12/2024	Chemtech -SO
P5273-02	MJNKH1D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/12/2024	Chemtech -SO
P5273-03	MJNKH1S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/12/2024	Chemtech -SO

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

12/18/24 14:15

2060C

JDCSM

12-18-24

15:00

JDCSM

2060C